

## CLAIMS

1. A pressure oscillation generator comprising: a work generating section for generating an input work; a heat exchanger having a heat removal section on a work input side thereof, to which the work from the work generating section is inputted, and also having a heat input section on a work output side thereof; a work transfer tube provided on the heat input side of the heat exchanger; an output section provided on the work output side of the work transfer tube; and a resonator branching from a section between the work transfer tube and the output section.
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- 10 2. The pressure oscillation generator according to claim 1, wherein the output side of said work transfer tube and said work generating section are communicated to each other via a returning section for returning a portion of a work outputted from said work transfer tube to said work generating section.
- 15 3. The pressure oscillation generator according to claim 1 or claim 2, wherein said resonator comprises a hollow accommodation body connected to a section between said work transfer tube and said output section, a solid displacer provided inside the accommodation body, and a bias section for biasing the solid displacer so that the solid displacer can vibrate in said accommodation body.
- 20 4. The pressure oscillation generator according to claim 3, wherein at least one pair of said resonators are provided at positions opposing each other so that the solid displacers get closer to or apart from each other in the vibration direction thereof.